# Cytometer Performance Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 8.0.2 |
| Input Device: | Carousel | Date: | 06/19/2019 10:45 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 04/24/2019 12:37 PM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

| | | | |
|---|---|---|---|
| Bead Product: | CST Setup Beads | Part #: | 910859 |
| Lot ID: | 80996 | Expiration Date: | 04/30/2020 |
| Bead Lot Information: | Available | | |

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 123811 | -1 | 1.21 | 123872 | 1.18 |
| Blue | F | SSC | 125000 | 124099 | -1 | 1.56 | 124901 | 1.56 |
| Blue | E | FITC | 16122 | 15785 | -3 | 2.66 | 344 | 19.68 |
| Blue | D | PE | 29316 | 28639 | -3 | 1.87 | 624 | 14.46 |
| Blue | B | PerCP-Cy5-5 | 42590 | 42069 | -2 | 3.57 | 1137 | 19.45 |
| Blue | A | PE-Cy7 | 33146 | 33609 | 1 | 6.02 | 639 | 40.24 |
| Red | C | APC | 45473 | 45049 | -1 | 2.41 | 1593 | 12.00 |
| Red | A | APC-Cy7 | 31961 | 31169 | -3 | 2.40 | 821 | 11.76 |
| Violet | B | V450 | 7914 | 7477 | -6 | 4.70 | 446 | 13.23 |
| Violet | A | V500 | 29769 | 28626 | -4 | 4.51 | 672 | 10.59 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 21112 | 3.21 | 607 | 7 | N/A | N/A | Pass |
| Blue | F | SSC | 56415 | 1.04 | 550 | 12 | N/A | N/A | Pass |
| Blue | E | FITC | 63 | 63.54 | 540 | 3 | 0.0214 | 183 | Pass |
| Blue | D | PE | 131 | 49.99 | 541 | 4 | 0.1804 | 320 | Pass |
| Blue | B | PerCP-Cy5-5 | 210 | 48.35 | 642 | 4 | 0.0100 | 84 | Pass |
| Blue | A | PE-Cy7 | 117 | 98.20 | 697 | 6 | 0.0111 | 8 | Pass |
| Red | C | APC | 379 | 25.42 | 585 | 6 | 0.0253 | 197 | Pass |
| Red | A | APC-Cy7 | 180 | 28.66 | 561 | 5 | 0.0059 | 1175 | Pass |
| Violet | B | V450 | 80 | 48.79 | 461 | 1 | 0.0431 | 1682 | Pass |
| Violet | A | V500 | 103 | 32.29 | 474 | 2 | 0.0230 | 705 | Pass |

## Specifications

| | |
|---|---|
| PMTV Delta from baseline: | 50 (BD) |
| Violet Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Blue Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Red Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |

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## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Guidelines (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.55 | 47.98 - 71.98 | N/A | N/A | -32.03 | -31.67 | 1.02 |
| Blue | 20.35 | 16.27 - 24.41 | 1.28 | 0.99 - 1.49 | 0.00 | 0.00 | 1.52 |
| Red | 16.30 | 13.60 - 20.40 | N/A | N/A | 29.26 | 29.64 | 1.21 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.91

## Threshold

Threshold (FSC): 10695

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.60
Spec.: 3.80 - 4.00

Comments